

WHIP integration checklist

The four HTTP verbs of RFC 9725, the auth and codec essentials, and the 2026 platform list. One page, print-ready.

POST — begin a session

RFC 9725 §4.2

To: WHIP endpoint URL

Headers: Content-Type: application/sdp ·
Authorization: Bearer ...

Body: SDP offer (sendonly · BUNDLE · single
MediaStream)

OK response: 201 Created · Location:
/sessions/{id} · ETag: "..."

Body of response: SDP answer (recvonly, full
server ICE candidates)

PATCH — update ICE state

RFC 9725 §4.3 (trickle ICE · ICE restart)

To: WHIP session URL (from Location)

Headers: Content-Type:
application/trickle-ice-sdpfrag · If-Match: "..." or *
Body: SDP fragment with new ICE candidates (and
ice-ufrag/pwd if restart)

Trickle OK: 204 No Content (no body, no new
ETag)

Restart OK: 200 OK + SDP fragment + new ETag

Errors: 412 stale ETag · 428 missing If-Match · 422
op not supported

DELETE — end the session

RFC 9725 §4.2

To: WHIP session URL (from Location)

Headers: Authorization: Bearer ...

Body: none

OK response: 200 OK · server tears down ICE +
DTLS + media

If skipped: server detects loss via ICE/keepalive
timers (a few seconds).

OPTIONS — capability discovery

RFC 9725 §4.1 + CORS preflight

To: WHIP endpoint URL

OK response: 200 OK · Accept-Post:
application/sdp · CORS headers

Optional benefit: early server ICE candidates →
~1 RTT saved

Used by: OBS 30.2+ · Cloudflare Stream · most
modern WHIP clients

2026 platform support snapshot

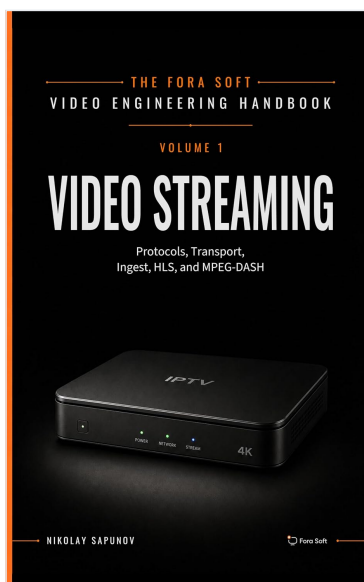
Platform	WHIP	RTMPS	SRT	Notes
Cloudflare Stream	Yes (GA)	Yes	Yes	Trickle ICE + ICE restart
AWS IVS Real-Time	Yes (GA)	—	—	WebRTC-first product line
Dolby Millicast	Yes (GA)	Yes	Yes	Authors' first commercial home
Mux Live	Yes (GA)	Yes	Yes	Three-protocol single endpoint
AWS Elemental MediaLive	Yes (GA)	Yes	Yes	WHIP added 2025
Ant Media v2.10+	Yes (GA)	Yes	Yes	Self-hosted or managed
Wowza Streaming Engine	Yes	Yes	Yes	Self-hosted; WHIP since 2023
YouTube / Twitch / Kick / TikTok	No	Yes	—	Consumer social = RTMPS-only

Encoder configuration crib (OBS 30+)

- **Service:** WHIP · **Server:** <https://.../whip-endpoint> · **Bearer token:** from platform dashboard.
- **Codec:** H.264 baseline or main, CBR, target bitrate set by platform; keyframe interval 2 s; B-frames disabled (WebRTC default profile does not negotiate them).
- **Audio:** Opus 48 kHz, 96–128 kbps stereo. AAC if the platform negotiates it; some do not.
- **Network:** wired Ethernet or healthy 5G/Wi-Fi; <1% loss. Lossy paths → use SRT instead.

Pre-flight checklist

- ☐ Server speaks RFC 9725 (POST → 201 + Location + ETag).
- ☐ HTTPS enforced; never plaintext HTTP in production.
- ☐ Bearer token in Authorization header, not URL query string.
- ☐ TURN server configured (or platform-hosted TURN reachable).
- ☐ Codec list on client matches server (H.264 baseline is the safe lowest common).
- ☐ Trickle ICE supported on both sides (otherwise disable on client).
- ☐ Token rotated periodically; scoped to the minimum required permissions.



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This checklist covers the WHIP verbs, encoder settings and the 2026 ingest platforms. Volume 2 covers contribution and ingest in depth: RTMP, SRT and RIST, what the network does to a stream, NAT traversal, and the glass-to-glass latency budget.

WHAT YOU WILL FIND INSIDE

- Ingest: RTMP, SRT, RIST
- What the network does to a stream
- NAT traversal
- Glass-to-glass latency budgets

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